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Proc E73-10778) THE USE OF ERTS-1 TO MORE
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DATA TO THE STUDY OF PRODUCTIVITY ALONG

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BIMONTHLY REPORT FOR NAS5-21816, PROPOSAL 299
for the period Apr. 1, 1973-May 31, 1973

TASK 3 (UN 672) The Use of ERTS-1 to More Fully Utilize and
Apply Marine Station Data to the Study of Productivity
along the Eastern Shelf Expanded Waters of the United States
Dr. H.G. Marshall

Submitted to the

Goddard Space Flight Center
National Aeronautics and Space Administration

By the

Old Dominion University Research Foundation
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PROGRESS REPORT

ERTS-1 Proposal 299-3

Report Period: April-May, 1973

Principal Investigator: Harold G. Marshall
Department of Biology
Old Dominion University

1. Water collections were received from the National Marine Fisheries Service vessels for collections taken in January and February 1973 off the east coast of the United States. These samples are being prepared for subsequent microscopic examination.
2. Water samples were taken at sites off the mouth of the Chesapeake Bay on March 21, April 8, April 26, and May 13. These samples will be further examined and correlated with any available ERTS data.
3. Excellent correlation was made between the data results obtained from ERTS overpass of January 26 and Sea Truth data off the Chesapeake Bay. Subsequent iso-density plots were made at the NASA Langley Laboratory through the cooperative efforts of Dr. David E. Bowker.
4. An oral presentation was made at the Virginia Academy of Science meetings May 4, 1973 at the College of William and Mary by Harold G. Marshall. The topic of this presentation was "Application of the Earth Resources Technological Satellite for Mapping Phytoplankton Densities in Atlantic Coastal Waters."
5. Preparation is underway for further data collections to be made during the summer months.